PATENT COOPERATION TREATY

PCT

REC'D 1 9 AUG 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent	's file reference								
62687A		FOR FURTHER ACTION See Form PCT/IPEA/416							
International application No. PCT/US2004/018382		International filing date 10.06.2004	(day/month/year)	Priority date (day/month/year) 12.06.2003					
International Patent C08K3/34	Classification (IPC) or r	national classification and I	PC						
Applicant DOW GLOBAL TECHNOLOGIES INC.									
Authority un	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
i e	This REPORT consists of a total of 5 sheets, including this cover sheet.								
	This report is also accompanied by ANNEXES, comprising:								
	and the time the time international bureauty a total of streets, as follows.								
,	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.									
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
This report contains indications relating to the following items:									
☑ Box No.	l Basis of the opi	inion							
☐ Box No.	•								
☐ Box No.	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability								
☐ Box No.			•	are and the second					
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
☐ Box No.									
	Box No. VII Certain defects in the international application								
□ Box No.	☐ Box No. VIII Certain observations on the international application								
Date of submission of the demand			Date of completion of this report						
06.01.2005			22.08.2005						
Name and mailing address of the international preliminary examining authority:			Authorized Officer						
European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016			Siemens, T Telephone No. +31 70 3	Due to the state of the state o					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2004/018382

-	Day No. 1	D : (::						
_	Box No. I	Basis of the repo	<u>rt </u>					
1.	With regard filed, unles	With regard to the language, this report is based on the international application in the language in which it illed, unless otherwise indicated under this item.						
	□ inte	 □ This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: □ international search (under Rules 12.3 and 23.1(b)) □ publication of the international application (under Rule 12.4) □ international preliminary examination (under Rules 55.2 and/or 55.3) 						
2.	THE POLICE	With regard to the elements* of the international application, this report is based on <i>(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):</i>						
	Description	, Pages						
	1-10		as originally filed					
	Claims, Nur	nbers						
	1-16		as originally filed					
	□ a sequ	ence listing and/or a	ny related table(s) - s	see Supplemental E	Box Relating to Seque	ence Listing		
3.	☐ the ☐ the ☐ the ☐ the	description, pages claims, Nos. drawings, sheets/fig sequence listing (sp	sulted in the cancellat s necify): equence listing (spec					
4.	Supplement the	tal Box (Rule 70.2(c description, pages claims, Nos. drawings, sheets/fig sequence listing (sp)). s	a to go beyond the	annexed to this report e disclosure as filed, a	and listed below is indicated in the		
					v he marked "gun	orogoded "		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2004/018382

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

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Novelty (N) Yes: Claims 1-16

No: Claims

Inventive step (IS) Yes: Claims

No: Claims 1-16

Industrial applicability (IA) Yes: Claims 1-16

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/US2004/018382

Re Item V.

The following documents are referred to in this communication:

D1: DD-A-251768 D2: WO-A-8300488

D3: JP-A-10316803 (Derwent-Abstract)

1. Novelty

D1 discloses the use of a combination of synthetic magadiite and a further halogenated organic flame retardant (see claim 3) or inorganic flame retardant (see claim 4).as combined flame retarding agent for polymers.

The polymers disclosed are rubbers and elastomers, not mentioning the polyolefin polymer of the present application.

D2 discloses a flame retardant polyolefin composition comprising an organic brominated flame retardant and a clay compound as well as their use as wire coating. No mention is made of the use of a synthetic magadiite.

D3 discloses a flame retardant polyolefin composition comprising an organic brominated flame retardant and a clay compound. No mention is made of the use of a synthetic magadiite.

Due to the above mentioned differences to the prior art in D1-D3, the present application fulfills the requirements of novelty.

2. Inventive step

The distinguishing feature between D1 which is considered to represent the closest prior art and the claims of the present application is the use of a <u>specific</u> polymeric component, namely a polyolefin.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/US2004/018382

No technical effect is however demonstrated due to this distinguishing feature and this feature only.

The objective technical problem of the present application is therefore the preparation of a further flame retardant polymeric composition.

A skilled person knowing the flame retardant effect of a magadiite/further flame retardant combination would obviously apply this knowledge to other polymers, including the claimed polyolefins when considering the above mentioned problem.

Such a change from elastomer to polyolefin is a routine experiment in a laboratory and does not involve an inventive step.

Consequently claims 1-16 of the present application do not involve an inventive step.